



TFW

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Yoichiro ARIMA *et al.*

U.S. Application No. 09/403,603

Art Unit: 1745

U.S. Filing Date: May 14, 2003

International Application No. PCT/JP98/01844

Examiner: Raymond Alejandro

International Filing Date: October 22, 1999

For: ELECTRODE AND CELL

Attorney Docket: P64708US0

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.97

MAIL STOP DD

Commissioner for Patents

PO Box 1450

Alexandria, Virginia 22313-1450

Sir:

Submitted herewith on Form PTO-1449 is a listing of documents known to Applicants and/or their attorney in compliance with the requirements of 37 CFR 1.56. In accordance with 37 CFR 1.98, copies of U.S. Patents and published U.S. Patent Applications are not submitted. Copies of all other documents are submitted herewith. Document AA is a U.S. patent corresponding to document CO and is being submitted herewith in place of a translation of document CO.

No translations are provided for documents AL to AP, as no translations are within the possession, custody or control of, or are readily available to any individual designated in 37 CFR 1.56(c). See MPEP 609A(2). English translations of the Abstracts are provided.

Since the Information Disclosure Statement is filed before the issuance of the first Office Action on the merits or within three months of filing, no fee is required. The Commissioner is hereby authorized to charge fees under 37 CFR § 1.17 which may be required for consideration of this paper; or credit any overpayment to Deposit Account No. 06-1358.

In accordance with 37 CFR § 1.97(g) and (h), the filing of this Information Disclosure Statement shall not be construed as a representation that a search has been made, or as an admission that the information cited herein is, or is considered to be, material to patentability as defined in 37 CFR § 1.56(b).

Applicants do not waive any rights to appropriate action to establish patentability over the listed documents should they be applied as references against the claims of the present application.

RELEVANCE OF THE DOCUMENTS

Documents BL to BP, CM and CN are English translations of the Abstracts of Japanese patents filed with an Information Disclosure Statement on October 22, 1999. Document CL is an English translation of a Japanese patent filed with the Information Disclosure Statement on October 22, 1999.

Document AL discloses a manufacturing method of a lead acid battery comprising the step of preparing a groove on the surface of the electrode with a roller comprising line-shaped unevenness. Both edges of the groove reach to the edges of the electrode.

Document AM discloses a purpose to allow no chance of active material falling-out or crack occurrences during the winding work of plates by providing stripe like grooves, which facilitate their winding, at least on one face of both of positive/negative plates or a negative plate in an enclosed battery provided with a group of spiral plates.

Document AN discloses a purpose to shorten the penetrating time of electrolyte into electrode group, and improve mass productivity by injecting a nonaqueous electrolyte into a laminated body having a positive electrode and a negative electrode laminated through a separator, and subjecting at least one surface of the separator to surface roughing treatment.

Document AO discloses a purpose to suppress an active material from coming off from an electrode at the time of manufacture so as to prevent an internal short-circuit from being generated by forming a porous protecting film of specific thickness on a surface of any active material applied layer of negative and positive electrodes.

Document AP discloses a purpose to reduce voltage drop in discharging, especially in the voltage drop condition at a low temperature, by providing minute unevenness on the surface of a negative electrode active material, in a lithium battery.

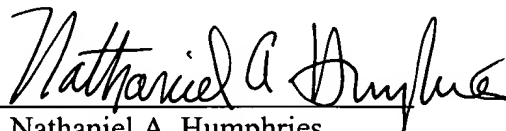
CONCLUSION

It is respectfully requested that the Examiner initial and return a copy of the enclosed Form PTO-1449, and to similarly indicate in the official file wrapper of this patent application that the listed documents have been considered.

If the Examiner has any questions or wishes to discuss this application, the Examiner is invited to telephone the undersigned representative at the number set forth below.

Respectfully submitted,

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Attorney Docket: **P64708US0**



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U.S. Patent Documents

Examiner Initial		Patent Number	Date	Name	Class	Sub-Class	Filing Date
	AA	6,287,720 B1	09-11-2001	Masaya YAMASHITA <i>et al.</i>			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

Foreign Patent Documents

		Document Number	Date	Country	Class	Sub-Class	Translation
	AL	JP62-4827	02-02-1987	Japan			No
	AM	JP05-41211	02-19-1993	Japan			No
	AN	JP06-333550	12-02-1994	Japan			No
	AO	JP07-220759	08-18-1995	Japan			No
	AP	JP08-222214	08-30-1996	Japan			No

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	
	AS	
	AT	

Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						
	BH						
	BI						
	BJ						
	BK						

Foreign Patent Documents

		Document Number	Date	Country	Class	Sub-Class	Translation
	BL	JP07-166211	06-27-1995	Patent Abstract Only			Yes
	BM	JP07-320788	12-08-1995	Patent Abstract Only			Yes
	BN	JP07-272760	10-20-1995	Patent Abstract Only			Yes
	BO	JP08-096795	04-12-1996	Patent Abstract Only			Yes
	BP	JP08-153515	06-11-1996	Patent Abstract Only			Yes

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

	BR	
	BS	
	BT	

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	CA						
	CB						
	CC						
	CD						
	CE						
	CF						
	CG						
	CH						
	CI						
	CJ						
	CK						

Foreign Patent Documents

		Document Number	Date	Country	Class	Sub-Class	Translation
	CL	JP09-298057	11-18-1997	Japan			Yes
	CM	JP09-330704	12-22-1997	Patent Abstract Only			Yes
	CN	JP10-172537	06-26-1998	Patent Abstract Only			Yes
	CO	WO97/08763	03-06-1997	Japanese Publication of PCT/JP96/02414			No
	CP						

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

	CR	
	CS	
	CT	

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